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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/586,433	06/02/2000	Ulrich Bortfeld	252/024	7379	
25700	7590 03/23/2004		EXAMINER		
	& FARJAMI LLP	) CRAIG, DWIN M			
	LAMEDA AVENUE, SU 71EJO, CA 92691	TTE 360	ART UNIT PAPER NUMBER		
			2123	7	
			DATE MAILED: 03/23/2004	1	

Please find below and/or attached an Office communication concerning this application or proceeding.

•				41			
	Application	on No.	Applicant(s)				
	09/586,43	33	BORTFELD, ULRICH	+ <i> </i>			
Office Action Summary	Examiner		Art Unit				
	Dwin M Cı		2123				
The MAILING DATE of this commun Period for Reply	nication appears on the	cover sheet with the c	orrespondence addre	ess			
A SHORTENED STATUTORY PERIOD IN THE MAILING DATE OF THIS COMMUN  - Extensions of time may be available under the provision after SIX (6) MONTHS from the mailing date of this com  - If the period for reply specified above is less than thirty ( If NO period for reply is specified above, the maximum some sailure to reply within the set or extended period for reply  - Any reply received by the Office later than three months earned patent term adjustment. See 37 CFR 1.704(b).  Status	IICATION. is of 37 CFR 1.136(a). In no event imunication. 30) days, a reply within the statustatutory period will apply and will will, by statute, cause the apply	ent, however, may a reply be timutory minimum of thirty (30) days ll expire SIX (6) MONTHS from lication to become ABANDONE	nely filed s will be considered timely. the mailing date of this comr D (35 U.S.C. § 133).	nunication.			
1) Responsive to communication(s) fil	ed on <u>02 June 2000</u> .						
2a) ☐ This action is <b>FINAL</b> .	2b)⊠ This action is no	on-final.					
<ol> <li>Since this application is in condition closed in accordance with the pract</li> </ol>				ierits is			
Disposition of Claims							
4) ☐ Claim(s) 1-17 is/are pending in the 4a) Of the above claim(s) is/a 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-17 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restrict	are withdrawn from con						
Application Papers							
9)⊠ The specification is objected to by the transfer of the drawing(s) filed on 02 June 2000.  Applicant may not request that any objected to the control of the control o	<u>20</u> is/are: a)⊠ accepte ection to the drawing(s) b g the correction is require	pe held in abeyance. See ed if the drawing(s) is obj	e 37 CFR 1.85(a). sected to. See 37 CFR	• •			
Priority under 35 U.S.C. §§ 119 and 120							
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No.</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> <li>13) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet.</li> <li>37 CFR 1.78.</li> <li>a) The translation of the foreign language provisional application has been received.</li> <li>14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.</li> </ul>							
Attachment(s)		_					
1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (3) Information Disclosure Statement(s) (PTO-1449)		4) Interview Summary 5) Notice of Informal P 6) Other:					

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#### **DETAILED ACTION**

1. Claims 1-17 have been presented for examination. Claims 1-17 have been examined and rejected.

## Nonstatutory Double Patenting

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a statutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must comply with 37 CFR 3.73(b).

2. Claim 1 is rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over Claim 1 of co-pending Application 09/586325. Although the conflicting claims are not identical, they are not patentably distinct from each other because, in Claim 1 of Application 09/586433 the Applicant discloses a method of simulating a system with at least two components where one component is a programming model of memory and another component is a programming model of a processor. Claim 1 in Application 09/586325 is describing a method of simulating a system with at least two components. Both Claim 1 of

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Application 09/586433 and Claim 1 of Application 09/586325 are directed to simulating a system design, the Examiner asserts that the only difference between the two claims is that the two components modeled in the design are a processor and a memory. It would have been obvious, to one of ordinary skill in the art, to model the two components in the system as a processor and a memory.

This is a provisional obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

#### Specification - Improper Incorporation by Reference

3. The attempt to incorporate subject matter into this application by reference an applications (page 1, specification), is improper because there is insufficient identification so as to direct the Examiner or future potential readers to the referenced material. The Examiner requires this information in order to properly review Applicant's specification. Furthermore, if the current application issues as a patent before the application, Applicants will be required to physically incorporate the incorporated material into the instant specification. Please refer to section 608.01(p) which recites:

reference to another application, publication is not an incorporation of anything therein into the application containing such reference for the purpose of the disclosure required by 35 U.S.C. 112, first paragraph. Seversky, 474 F.2d 671, 177 USPQ 144 (CCPA 1973). In addition to requirements for an application, the application should include an identification of the referenced patent, application, or publication. Particular attention should be directed to specific portions of the referenced document where the subject matter being incorporated may be found. Guidelines for situations where applicant is permitted to fill in a number for Application No. left blank in the application as filed can be found in In re Fouche, 439 F.2d 1237, 169 USPQ 429 (CCPA 1971) (Abandoned applications less than 20 years old can be incorporated by reference to the same extent as copending

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applications; both types are open to the public upon the referencing application issuing as a patent. See MPEP § 103).

Specifically, the Examiner requires the Applicant to provide the serial number, in this case 09/586325, of the non-provisional Patent Application entitled "METHOD AND APPARATUS FOR ACCELERATING HARDWARE SIMULATION" listed on page 1 of the specification into this Application.

#### **REJECTIONS**

#### Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 4. Independent Claims 1, 7, 11, 12 and 15 and dependent Claim 2 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by "Synthesis and Simulation of Digital Systems Containing Interacting Hardware and Software Components, by Rajesh K. Gupta, Claudionor Nunes Coelho, Jr., and Giovanni De Micheli," hereafter reffered to as the *Gupta et al.* reference.
- 4.1 As regards independent Claims 1, 7, 11, 12 and 15 the Gupta et al.

  reference discloses, a unified simulation design/program product/method for simulating system design (page 225), identifying a memory component and a processor component of a system design (Figure 2 and pages 225-226), associating said software component with said programming model of said memory component within a simulation environment (pages 228-230 section 4 Simulation of Hardware-Software Systems), executing said system design and

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said application program in said simulation environment (Figure 7 page 230 and section 5 Conclusions).

- 4.2 As regards dependent Claim 2 the Gupta et al. reference teaches generating cycle accurate information (pages 227-228).
- 5. Claims 1-17 are rejected under 35 U.S.C. 102(b) as being unpatentable over Ball U.S. Patent 5,615,357.
- 5.1 As regards independent Claims 1, 7, 11, 12 and 15 the *Ball* reference discloses, a unified simulation design/program product/method for simulating system design (Figure 5A), identifying a memory component and a processor component of a system design (Figure 2, Col. 6 Lines 54-67), associating said software component with said programming model of said memory component within a simulation environment (Col. 6 Lines 36-51), executing said system design and said application program in said simulation environment (Col. 12 Lines 22-55).
- 5.2 As regards dependent Claims 2, 13 and 16 the *Ball* reference discloses cycle accurate information (Figures 3B, 5A Item 60).
- 5.3 As regards dependent Claims 3, 8 and 9 the *Ball* reference discloses high level functions calls and software *links* between the different executing modules (Col. 3 Lines 26-67, Col. 4 Lines 1-34, Col. 6 Lines 35-67).
- 5.4 As regards dependent Claims 4-6 the *Ball* reference discloses (Col. 9 Lines 56-65, Col. 10, 11, 12, 13, Figures 3A, 3B, 4A, 4B, 5A, 6A, 6B, 6D).

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- 5.5 As regards dependent Claim 10 the Ball reference discloses a clock (Figure 3B CYCLES).
- 5.6 As regards dependent Claim 14 the *Ball* reference discloses sets of instructions (Figures 3B, 4A, 4B).
- 5.7 As regards dependent Claim 17 the *Ball* reference discloses instructions associated with the memory model (Figure 4A Item 26: LOAD MEM, Col. 10 Lines 54-64).

### **Conclusion**

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dwin M Craig whose telephone number is 703 305-7150. The examiner can normally be reached on 9:00 - 5:00 M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kevin Teska can be reached on 703 305-9704. The fax phone number for the organization where this application or proceeding is assigned is (703) 746-7239.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703 305-3900.

**DMC** 

EUM A TESTAMER